

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1-40 (canceled)

41.(new) An analysis chip comprising:

 a substrate on which a channel is formed,
 a sensing element placed in a part of said channel and in which a reagent which generates a change in appearance in a chemical reaction with a particular substance is uniformly distributed; and a scale which is placed along said sensing element.

42.(new) The analysis chip according to claim 41, further comprising:

 a lens covering said sensing element,
 wherein an area of a surface of said substrate on which said channel is formed other than areas where said channel is formed is made of an opaque material.

43.(new) The analysis chip according to claim 42, further comprising:

 a reagent separator separating a large particle and a smaller particle included in a liquid flowing in said channel into a second channel.

44.(new) The analysis chip according to claim 43, wherein said channel and said second channel is separated by a barrier having a hole which is smaller than said large particle, and

a surface of said barrier includes a hydrophobic material.

45.(new) The analysis chip according to claim 42, wherein said channel is a rectangular groove and when a section vertical to a flow direction of said channel is seen, an angle of a edge of a bottom surface of a channel and a top on an opposite side is approximately 48.6 degrees.

46.(new) The analysis chip according to claim 43, further comprising:

a first illumination member emitting light from an undersurface of said channel; and

a magnifier magnifying an inside of said channel.

47.(new) The analysis chip according to claim 41, further comprising:

a reagent bead covered with different reagents to form a multilayer coating.

48.(new) The analysis chip according to claim 47, further comprising:

a reagent separator separating a large particle and a smaller particle included in a liquid flowing in said channel into a second channel.

49.(new) The analysis chip according to claim 48, wherein said channel and said second channel is separated by a barrier having a hole which is smaller than said large particle, and

a surface of said barrier includes a hydrophobic material.

50.(new) The analysis chip according to claim 47, wherein said channel is a rectangular groove and when a section

vertical to a flow direction of said channel is seen, an angle of a edge of a bottom surface of a channel and a top on an opposite side is approximately 48.6 degrees.

51.(new) The analysis chip according to claim 47, further comprising:

 a first illumination member emitting light from an undersurface of said channel; and

 a magnifier magnifying an inside of said channel.

52.(new) The analysis chip according to claim 47, wherein said sensing element includes a reagent in which an appearance is changed by a reaction with said particular substance.

53.(new) The analysis chip according to claim 52, wherein said reagent is uniformly distributed in said sensing element.

54.(new) The analysis chip according to claim 41, further comprising:

 a hue pattern placed in adjacent to said channel and a lengthwise size of which being same to said sensing element.

55.(new) The analysis chip according to claim 54, wherein a groove adjacent to said channel and parallel to said channel is formed on said substrate, and

 said hue pattern is formed inside said groove.

56.(new) The analysis chip according to claim 54, further comprising:

 a reagent separator separating a large particle and a smaller particle included in a liquid flowing in said channel into a second channel.

57.(new) The analysis chip according to claim 56, wherein said channel and said second channel is separated by a barrier having a hole which is smaller than said large particle, and a surface of said barrier includes a hydrophobic material.

58.(new) The analysis chip according to claim 54, wherein said channel is a rectangular groove and when a section vertical to a flow direction of said channel is seen, an angle of a edge of a bottom surface of a channel and a top on an opposite side is approximately 48.6 degrees.

59.(new) The analysis chip according to claim 54, further comprising:

a first illumination member emitting light from an undersurface of said channel; and

a magnifier magnifying an inside of said channel.

60.(new) The analysis chip according to claim 54, wherein said sensing element includes a reagent in which an appearance is changed by a reaction with said particular substance.

61.(new) The analysis chip according to claim 60, wherein said reagent is uniformly distributed in said sensing element.

62.(new) The analysis chip according to claim 41, wherein said reagent includes at least one member selected from the group consisting of an enzyme, an antibody, an antigen and a fluorescent material.

63.(new) The analysis chip according to claim 62, further comprising:

a reactor which is formed on said channel and in which an indication substance to be specifically coupled to a particular component is placed; and

a catcher which is formed on a downstream side from said reactor of said channel and catches said indication substance coupled to said particular component.

64.(new) The analysis chip according to claim 62, wherein a width of said channel of a region where said catcher of said channel is formed is gradually narrowed toward an advancement direction of said channel.

65.(new) The analysis chip according to claim 63, wherein a density of said indication substance in said catcher is higher toward a downstream side of said channel.

66.(new) The analysis chip according to claim 41, wherein said channel gradually narrows toward a downstream side, and

a hydro-gel layer whose volume is changed when said particular substance is absorbed is placed on a wall surface of said channel, and

said change in appearance is occurred by a closing of said channel at a different position depending on an amount of said particular component because a volume of said hydro-gel layer is changed when colored said particular component flows in said channel.

67.(new) The analysis chip according to claim 41, further comprising:

a bead placed in said channel and whose surface is formed by a hydro-gel layer whose volume is changed when absorbing said particular component,

wherein said channel gradually narrows toward a downstream side is placed, and

said change in appearance is occurred when a liquid flows in said channel and said bead is carried away by said liquid and stopped at a different position in said channel depending on a volume.

68.(new) The analysis chip according to claim 41, further comprising;

a polymer solution placed inside said channel in which a reaction with said particular substance changes a viscosity of said polymer,

a target bead placed inside said channel; and

a tentative holder that is placed at a predetermined position inside said channel and holds said target bead at said predetermined position when a force weaker than a predetermined magnitude is applied to said target bead.

69.(new) The analysis chip according to claim 68, wherein said target bead includes a ferromagnetic material.

70.(new) (amended). The analysis chip according to claim 68, further comprising;

a pair of electrodes formed at ends of said channel, and

a battery which generates a potential difference between said pair of electrodes,

wherein a surface of said target bead is charged in a solution of a predetermined pH.

71.(new) The analysis chip according to claim 41, wherein said channel includes;

a solution holder which contains a solution through capillary attraction; and

an introduction path which introduces a solution into said solution holder through capillary attraction.

72.(new) The analysis chip according to claim 71,
wherein said analysis chip comprises a plurality of said
channels, and

a plurality of said solution holders each of which is
included in each of said plurality of channels hold a
different amount of solution each other.

73.(new) The analysis chip according to claim 41,
wherein said channel is a rectangular groove formed on a
surface side of said substrate, and

further comprising a reflector that is placed along a
bottom surface of said substrate and reflects a visible light.

74.(new) The analysis chip according to claim 41,
wherein a wall surface of said channel is covered with a
material whose refractive index is equal to or less than a
refractive index of water.

75.(new) The analysis chip according to claim 41, further
comprising;

a transparent cover covering said channel,
wherein a distance between a bottom surface of said
channel and said cover is continuously changed in an
lengthwise direction of said channel, and

an interference band whose position is different
depending on a refractive index of a substance filled in said
channel is displayed on an outer side of said cover by
reflection of light between said bottom surface and said
cover.

76.(new) The analysis chip according to claim 63, wherein said
particular component is a first antibody, and

said indication substance is a second antibody.

77.(new) An analyzing apparatus comprising:

 a substrate on which a channel is formed,
 a sensing element placed in a part of said channel and in which a reagent which generates a change in appearance in a chemical reaction with a particular substance is uniformly distributed,

 a scale which is placed along said sensing element; and
 a second illumination member emitting light to said sensing element from a side face of said analysis chip.

78.(new) The analyzing apparatus according to claim 77, wherein said light which said second illumination member emits to said sensing element is ultraviolet light.

79.(new) The analyzing apparatus according to claim 77, wherein said second illumination member includes a light collecting lens collecting light to said sensing element.

80.(new) The analyzing apparatus according to claim 77, wherein said second illumination member is a light emitting member.

81.(new) The analyzing apparatus according to claim 77, wherein said illumination member is any of a bulb, LED and black light.

82.(new) The analyzing apparatus according to claim 77, wherein said second illumination member has a mounting part on which a side face of said substrate is mounted, and
 when said substrate is mounted to said second illumination member, said second illumination member collects natural light and supplies light being approximately parallel to a substrate surface of said substrate to said substrate.